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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/813,810	0/813,810 03/22/2001		Ronald H. Clark	18180.0142	. 3104	
23517	7590	02/27/2003				
		SHEREFF FR	EXAMINER			
3000 K STR BOX IP	EET, NW			ASSOUAD, PATRICK J		
WASHINGTON, DC 20007				ADTIBUT	DARED MILLIONED	
			. [ART UNIT	PAPER NUMBER	
				2857		
			•	DATE MAILED: 02/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	94
	09/813,810	CLARK, RONALD H.	
Office Action Summary	Examiner	Art Unit	
	Patrick J Assouad	2857	
Th MAILING DATE of this communication app Period for Reply	ears on the cov rsh et w	ith the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a a within the statutory minimum of thin will apply and will expire SIX (6) MON, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	nication.
1) Responsive to communication(s) filed on	<u></u> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allowards closed in accordance with the practice under Disposition of Claims			erits is
4)⊠ Claim(s) <u>1-39</u> is/are pending in the application	ı .		
4a) Of the above claim(s) is/are withdray			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,7,8,10,12,14,22 and 25-36</u> is/are rej	iected.		
7) Claim(s) <u>2-6,9,11,13,15-21,23,24 and 37-39</u> is			
8) Claim(s) are subject to restriction and/or			
Application Papers		-	
9)☐ The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the			
11)☐ The proposed drawing correction filed on	_is: a)□ approved b)□ c	lisapproved by the Examiner.	
If approved, corrected drawings are required in rep	·		
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in A	application No	
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).		je
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C.	§ 119(e) (to a provisional app	olication).
a) The translation of the foreign language pro			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152	
S. Patent and Trademark Office	***************************************		

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: there are numerous blanks on pg. 1. Appropriate correction is required.

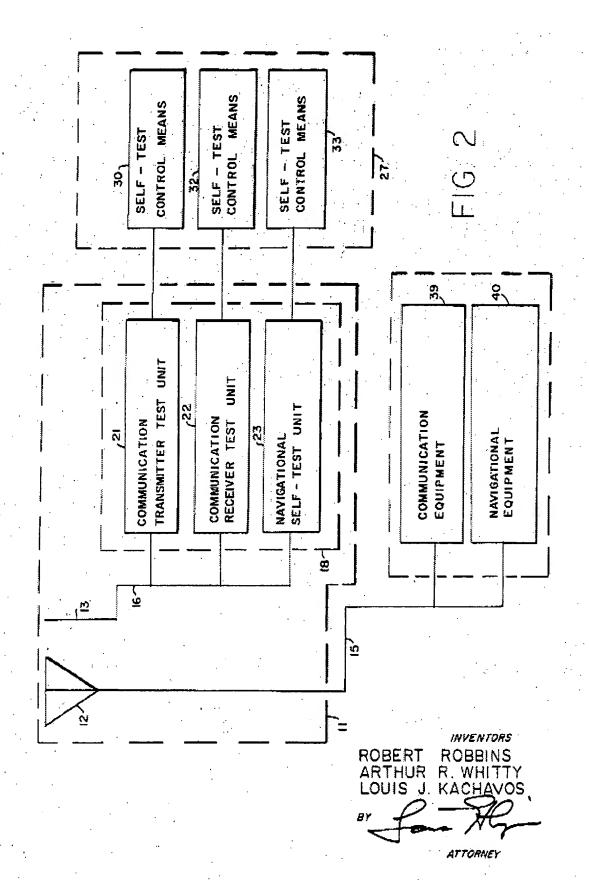
Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 10 recites the limitation "the GPS navigation message" in line 22. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 7-8, 12, 14, 22, 25, 26, 27, 29, 30, 31, 32, 33, 34, 35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Robbins et al.** ('876) in view of **Dwyer** ('953 B1).
- 6. **Robbins et al.** disclose an antenna self-test system for "airborne electronic systems" (col.1) and "while the airplane is in flight" (col. 2). Fig. 2 of **Robbins et al.** is reproduced below and clearly shows the on-board transmitter, receiver and processor for "verifying the integrity of the transmitted signal".

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- 7. The difference between the instant claimed invention and that of **Robbins et al.** lies in the claimed "space vehicle". **Robbins et al.** is concerned primarily but not exclusively with "aircraft"; however, they also teach that their system may be applied "to any system which transmits and/or receives a signal from an antenna".
- 8. **Dwyer** teaches a method and apparatus for on-board testing of a communication satellite. They teach us that there is a significant need for testing satellites or "space vehicles" -- as applicant calls them -- that are "in orbit" (col. 1).
- 9. It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the self-test system and method of **Robbins et al.** to "in orbit" satellites as taught by **Dwyer** because a complete and accurate measurement of orbital or in-flight capabilities allows ground operators to verify real-time functionality, and also avoids costly weight additions to support pure ground testing procedures. See at least the background of **Dwyer** for further motivation.

Allowable Subject Matter

- 10. Claims 2-6,9-11,13,15-21,23-24,28,37-39 are allowable over the prior art of record.
- 11. Claims 2-6,9,11,13,15-21,23,24 and 37-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO-892.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J Assouad whose telephone number is 703-305-3811. The examiner can normally be reached on Tuesday-Friday, 6:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 703-308-1677. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Patrick J Assouad Primary Examiner Art Unit 2857

pja February 21

February 21, 2003